

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for transporting a molecule through a mammalian barrier membrane of at least one layer of cells comprising the steps of:
ablating said membrane with a shear device comprising a sheet containing at least one opening and a shear member, where said sheet is contacted with said membrane such that a portion of said membrane is forced through said opening and said shear member ablates said portion of said membrane exposed through said opening; and
utilizing a driving force to move said molecule through said perforated membrane.
2. (Original) A method of claim 1, wherein said shear member is a shear blade.
3. (Original) A method of claim 2, wherein said portion of said membrane is forced into said opening by a pressure force.
4. (Original) A method of claim 3, wherein said pressure force is mechanical pressure.
5. (Original) A method of claim 3, wherein said pressure force is suction.
6. (Currently Amended) A method of claim ~~1~~2, wherein said shear device further comprises a driving unit to move said shear blade.
7. (Original) A method of claim 6, wherein said driving unit is powered manually by the user of the device.
8. (Original) A method of claim 6, wherein said driving unit is powered by an electric motor.

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9. (Original) A method of claim 1, wherein said membrane is selected from the group consisting of skin, buccal, vaginal, and rectal membranes.
10. (Original) A method of claim 1, wherein said membrane is human skin.
11. (Original) A method of claim 1, wherein said driving force is selected from a group consisting of iontophoresis, electro-osmosis, reverse iontophoresis, electroporation, phonophoresis, pressure gradients, and concentration gradients.
12. (Original) A method of claim 1, wherein said molecule is a pharmaceutical transported through said membrane into said mammal.
13. (Original) A method of claim 12, wherein said pharmaceutical is selected from the group consisting of polysaccharides, peptides, proteins, and polynucleotides.
14. (Original) A method of claim 12, wherein said molecule is a vaccine.
15. (Original) A method of claim 14, wherein said molecule is a vaccine against *Staphylococcus aureus*
16. (Original) A method of claim 1, wherein said molecule is transported from within said mammal out through said membrane.
17. (Original) A method of claim 16, wherein said molecule is glucose.
18. (Original) A method of claim 6, wherein said device further comprises a sensor, the feedback from said sensor modifies said driving unit.
19. (Original) A method of claim 18, wherein said sensor is selected from the group consisting of pressure sensor, conductivity sensor, impedance sensor, pH and temperature sensor.

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20. (Currently Amended) A method of claim 1, wherein said ~~sheer~~shear member moves parallel to said ~~sheer~~shear sheet.

21. (Currently Amended) A method of claim 2, wherein said ~~sheer~~shear blade moves parallel to said ~~sheer~~shear sheet.

22. (Original) A method of claim 19, wherein said sensor is an impedance sensor measuring the impedance of the barrier membrane.

23. (Original) A method of claim 22, wherein the measurements from said impedance sensor are relayed to a microprocessor.